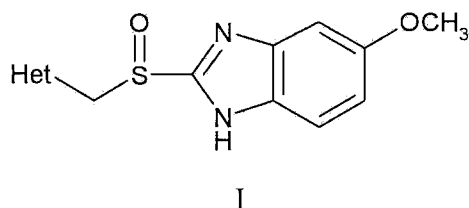


Amendments to the Claims

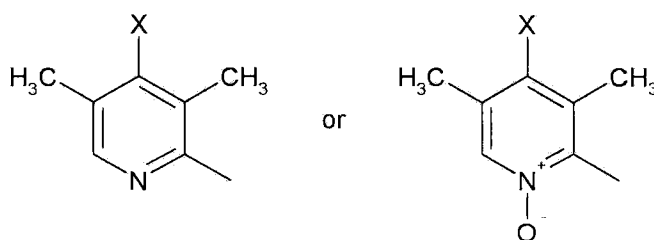
The following listing of claims will replace all prior versions and listings of claims in the application.

Claims 1-5 Canceled

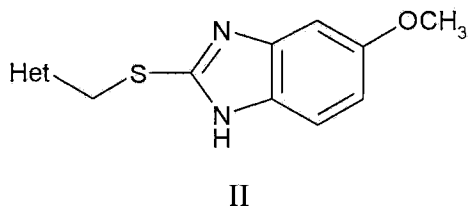
6. (Currently amended) A process for enantioselective synthesis of a sulfoxide of formula I ~~either as in the form of a single enantiomer, a tautomer of the single enantiomer, or in an enantiomerically enriched form of the compound, or a tautomer of the enantiomerically enriched form of the compound,~~



wherein Het is



and X is a leaving group, ~~wherein the process comprises such as a halogen (F, Cl, Br, I), NO₂, N₂⁺ or OSO₂R (R is CH₃, CF₃, p-toluene, m-chlorobenzene, p-chlorobenzene), characterized in that oxidizing a pro-chiral sulphide of the formula II,~~



wherein Het is defined above, ~~as above~~, i) is oxidised in an organic solvent with an oxidising agent and in the presence of a chiral titanium complex and optionally a base, ~~or~~

~~ii) is oxidised in an organic solvent with an oxidising agent and in the presence of a chiral titanium complex, optionally in the presence of a base, wherein the titanium complex has been prepared in the presence of the pro-chiral sulphide, or~~

~~iii) is oxidised in an organic solvent with an oxidising agent and in the presence of a chiral titanium complex, optionally in the presence of a base, wherein the titanium complex has been prepared during an elevated temperature and/ or a prolonged preparation time, or~~

~~iv) is oxidised in an organic solvent with an oxidising agent and in the presence of a chiral titanium complex, optionally in the presence of a base, wherein the titanium complex is prepared in the presence of the pro-chiral sulphide and during an elevated temperature and/ or during a prolonged preparation time.~~

Claims 7-9 Canceled

10. (New) The process according to claim 6, wherein the leaving group X is selected from the group consisting of halogen, NO₂, N₂⁺, and OSO₂R, wherein R is CH₃, CF₃, p-toluene, m-chlorobenzene, or p-chlorobenzene.

11. (New) The process according to claim 6, wherein the process is carried out in the presence of a base.

12. (New) The process according to claim 6, wherein the titanium complex is prepared in the presence of the pro-chiral sulphide.

13. (New) The process according to claim 6, wherein the titanium complex is prepared at an elevated temperature and/or during a prolonged preparation time.

14. (New) The process according to claim 6, wherein the titanium complex is prepared in the presence of the pro-chiral sulphide and at an elevated temperature and/or during a prolonged preparation time.